In re Application of David A. Tirrell

Application No.: 10/015,956 Filed: December 10, 2001

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Amendment to the claims

Please amend claims 1 and 5 as set forth below.

Please cancel claims 6-7, 9-11, 14-16, 19-44, 46-48 and 51-55 without prejudice or disclaimer. Claims 8, 12-13, 45 and 49-50 were previously cancelled.

Please add new claim 57.

Upon entry of the present amendment, the status of the claims will be as follows.

Listing of the claims:

- 1. (Currently amended) A fusion protein comprising:
 - (a) a subject protein; and
 - (b) a polyanionic domain attached to the subject protein at a terminal region, wherein the polyanionic domain binds to a polycationic coating deposited on a solid support and the polyanionic domain has the formula -[-(Ala-Gly)**, Pro-Glu-Gly]**, or -[-(Ala-Gly)**, Pro-Glu-Gly]**, or -[-(Ala-Gly)**, wherein x is 5, 6, 7 or 8 and n is an integer between about 1 and 4, or -[-(SEQ ID NO:1)**, wherein x is 5, 6, 7 or 8 and m is an integer between about 1 and 40, and wherein y is 0, 1, 2, 3, 4, 5, 6, 7 or 8 and m is an integer between about 1 and 40, and wherein SEQ ID NO:1 is Ala-Gly, SEQ ID NO:2 is Pro-Glu-Gly and SEQ ID NO:6 is Glu-Gly.
- 2. (Original) The protein of claim 1, wherein the terminal region is the amino-terminal region.
- 3. (Original) The protein of claim 1, wherein the terminal region is the carboxyl-terminal region.
- 4. (Original) The protein of claim 1, wherein the polyanionic domain contains about 10 to 30 anionic amino acid residues.

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5. (Original) The protein of claim [[4]] 1, wherein the polyanionic domain comprises anionic amino acid residues are selected from the group consisting of glutamic acid residues, aspartic acid residues, and any combination thereof.

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- 6-16. (Cancelled).
- 17. (Previously presented) The protein of claim 9, wherein x is 5 and n is 14.
- 18. (Previously presented) The protein of claim 9, wherein x is 6 and n is 14.
- 19-55. (Cancelled).
- 56. (Original) A plurality of fusion proteins of claim 1.
- 57. (New) A fusion protein comprising:
 - (a) a subject protein; and
 - (b) a polyanionic domain attached to the subject protein at a terminal region, wherein the polyanionic domain binds to a polycationic coating deposited on a solid support and the polyanionic domain has the formula -[-(Ala-Gly)*, Pro-Asp-Gly-]-**, or -[-(Ala-Gly)*, Asp-Gly-]-**, or -[-(SEQ ID NO:1)*, -SEQ ID NO:7-]-**, or -[-(SEQ ID NO:1)*, -SEQ ID NO:8-]-**, wherein x or y is 0, 1, 2, 3, 4, 5, 6, 7 or 8 and n or m is an integer between about 1 and 40, and wherein SEQ ID NO:1 is Ala-Gly, SEQ ID NO:7 is Pro-Asp-Gly and SEQ ID NO:8 is Asp-Gly.